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WHAT IS CLAIMED IS:

1. An operational process for a data bus for a plurality of nodes characterized by the fact that the nodes are in connection with one another via a star coupler, at least one part of the nodes is connected via a light guide to the star coupler, the nodes are synchronized by synchronization pulses, the telegrams are transmitted from the nodes with a hierarchical transmission sequence, and that the transmitting start time points of the telegrams are set by adaptation elements so that they are independent of the node in question and still only depend on the transmission sequence.
2. Operational process according to claim 1 characterized by the fact that by the adaptation elements the transmission time point for a telegram when the same node has previously transmitted itself is set later than when the node previously has received a telegram of another node.
3. Operational process according to claim 1 or 2 characterized by the fact that by the adaptation elements for each node within one cycle a delay time is set whose length is complementary to the signal transit time between the node and the star coupler.
4. Operational process according to claim 3 characterized by the fact that the delay time depends on the type of connection of the node to the star coupler.